UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

# CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

## April 1962

## Part II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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Biological Laboratory
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San Diego 6, California

* Part I - "Fishery Products Production and Market Data" is issued by the Bureau of Commercial Fisheries, Market News Service, Post Office Building, San Pedro, California

## TOPOGRAPHIC CHARTS

Topographic Chart No. 17 which shows seamounts and protuberances rising above the ocean floor from 4°S. to 3°N. latitude and from 80°W. to 90°W. longitude and a special chart of the Galapagos Island area were printed in April. Charts may be obtained from Inter-American Tropical Tuna Commission representatives or by writing directly to our San Diego address.

## N O T I C E

## REWARD FOR SHARK TAGS

As part of its program of research on sharks, the Bureau of Commercial Fisheries Biological Laboratory, San Diego has begun a tagging program on tropical species. We would appreciate it if fishermen would be on the lookout for these strap tags attached to the dorsal fin. A reward of one dollar will be paid for the return of tags with information on date and location of capture.

SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
APRIL 1962

Acknowledgments

The following organizations and stations contributed data for the April 1962 charts:

U. S. Weather Bureau, San Diego, California
U. S. Weather Bureau Ship Visitation Office, Long Beach, California
U. S. Naval Communication Station Balboa, Fort Amador, Canal Zone
U. S. Navy Branch Hydrographic Office, Honolulu, Hawaii; Seattle, Washington; San Francisco and Wilmington, California
U. S. Coast Guard, Port Hueneme Light Station, Port Hueneme, California
U. S. Bureau of Commercial Fisheries, Biological Laboratories, Honolulu, Hawaii; La Jolla, California; Seattle, Washington
U. S. Bureau of Commercial Fisheries, Exploratory Fishing and Gear Research Base, Seattle, Washington
Guadalupe Island, Coronado Island, Ensenada, Cedros Island and Almejas Bay by Pedro Mercado of the Universidad Autonoma de Baja California, Ensenada, Mexico
Hopkins Marine Station, Pacific Grove, California by J. P. Balesteri
Humboldt State College by George Allen
Inter-American Geodetic Survey by Rene Cortes at Salina Cruz, Mexico; David Ortega at Manzanillo, Mexico; Romeo Valencia at Pt. San Jose, Guatemala; D. Reyes at Pt. Armuelles, Panama; V. E. Castillo at Tumaco, Colombia; Gualberto Tapia at San Cristobal, Galapagos; J. V. Aldaz at La Libertad, Ecuador; G. Villar at Talara, Peru; R. Celis at San Juan, Peru
Inter-American Tropical Tuna Commission, La Jolla, Terminal Island, California and Guayaquil, Ecuador
Kelco Company, San Diego, California
Oregon State University by Bruce Wyatt and Norman Kujala
Pacific Oceanographic Group, Nanaimo, British Columbia, by H. J. Hollister from observations by R. W. Collins at Quatsino Lightstation; G. J. Skinner at Cape St. James Light; B. Stuart at Amphitrite Point Light; J. M. Hartt at Langara Island Light
Scripps Institution of Oceanography, La Jolla, California by Margaret Robinson and Hans Klein
Ship Santa Maria, Royal Pacific and Acona

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 8000 observations. Squares show temperatures at weather-ship stations. Numerals on shore are temperatures at coastal and light stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term mean charts of H. O. 225. Hatched areas are colder than mean.

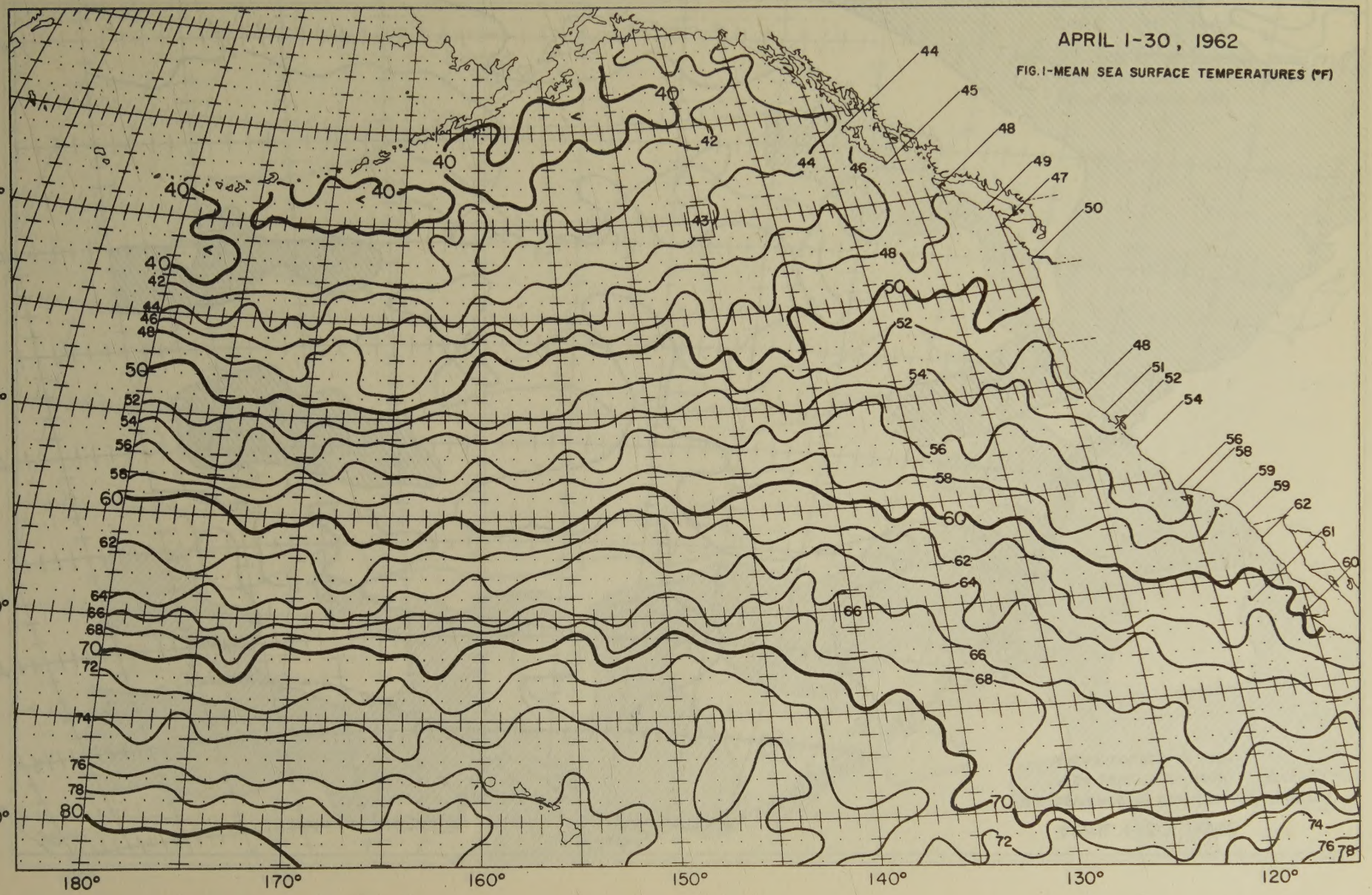
Figure 3.--Deviation of sea surface temperatures (°F) from those of April 1961. Hatched areas are colder than 1961.

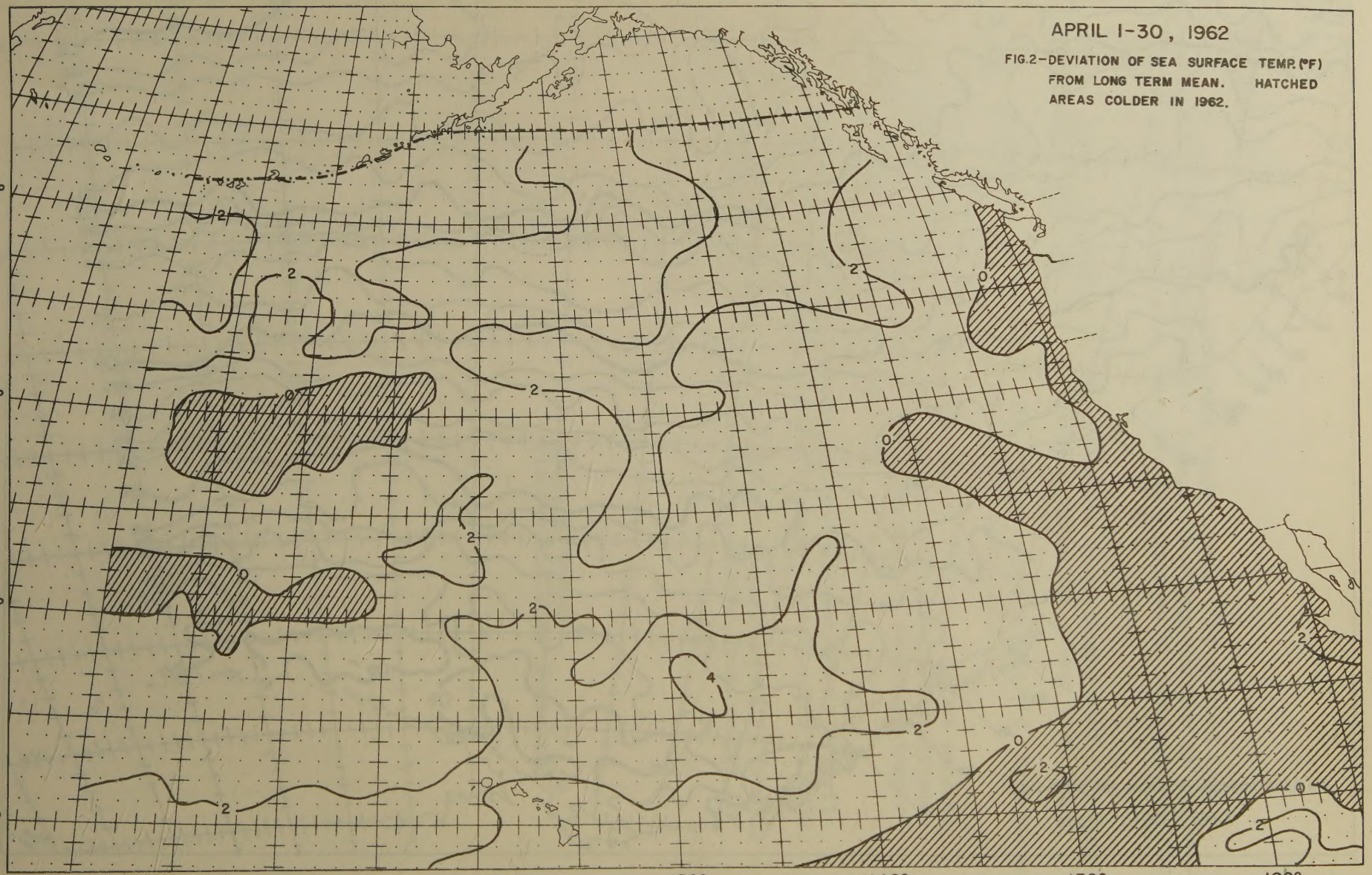
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 2000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal and light stations.

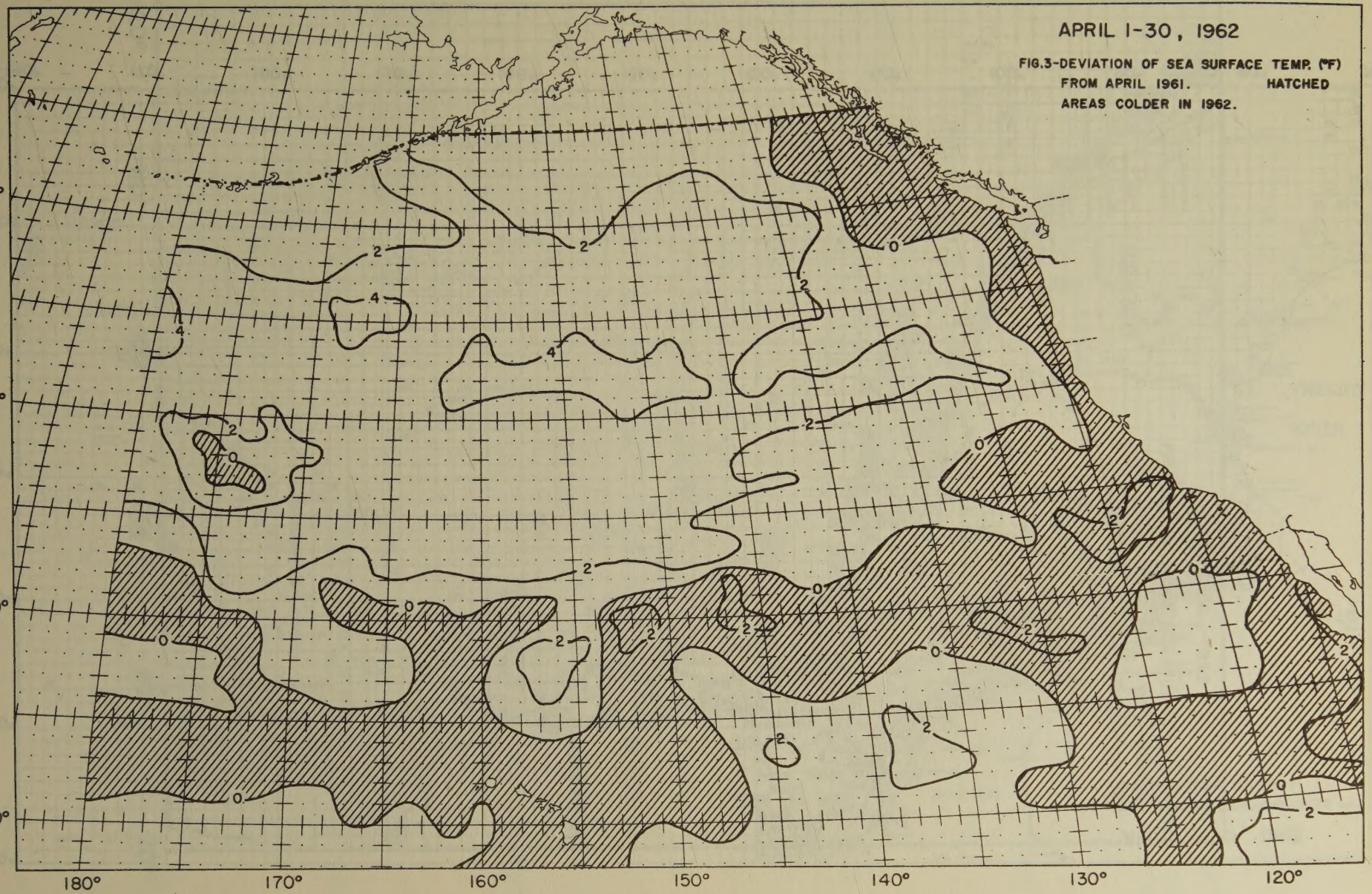
Figure 5.--Deviation of sea surface temperatures (°F) April 1962 - April 1961 by 1-degree squares. Shaded areas colder in 1962.

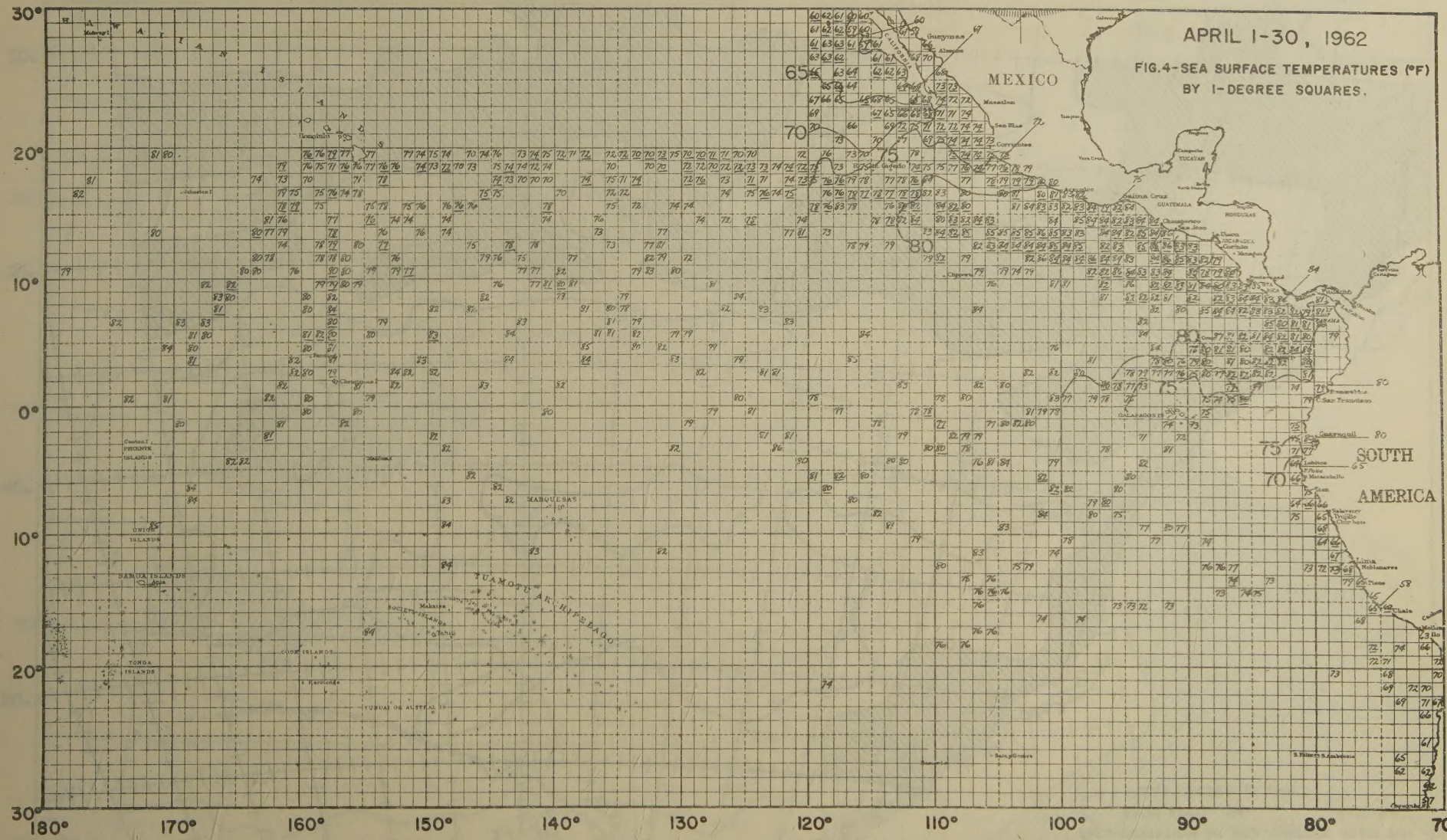
Figure 6.--Deviation of sea surface temperatures (°F) from 12 year mean (1947-1958) by 2-degree squares. Shaded areas colder in 1962.

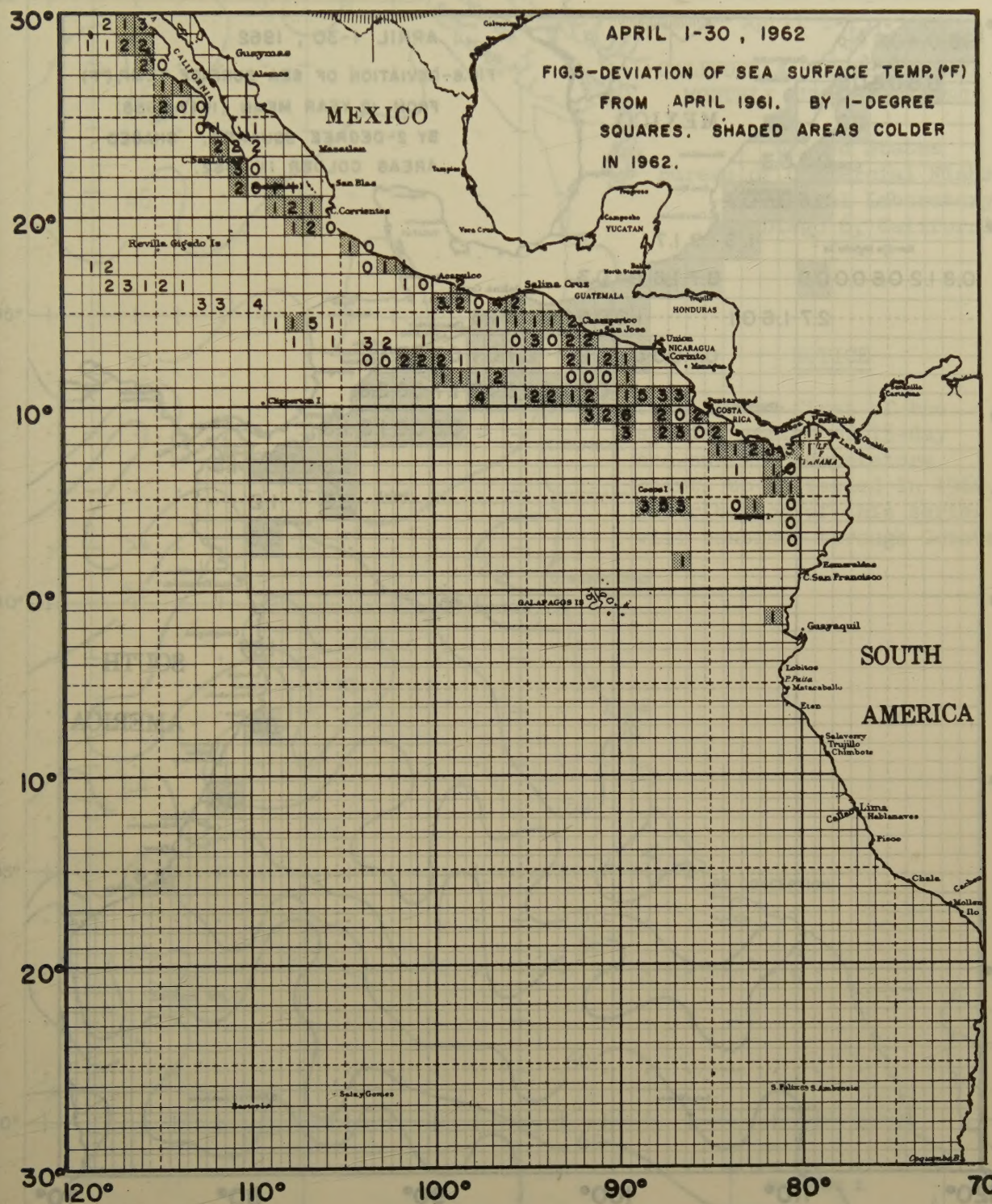
James A. Renner
Fishery Biologist (Research)

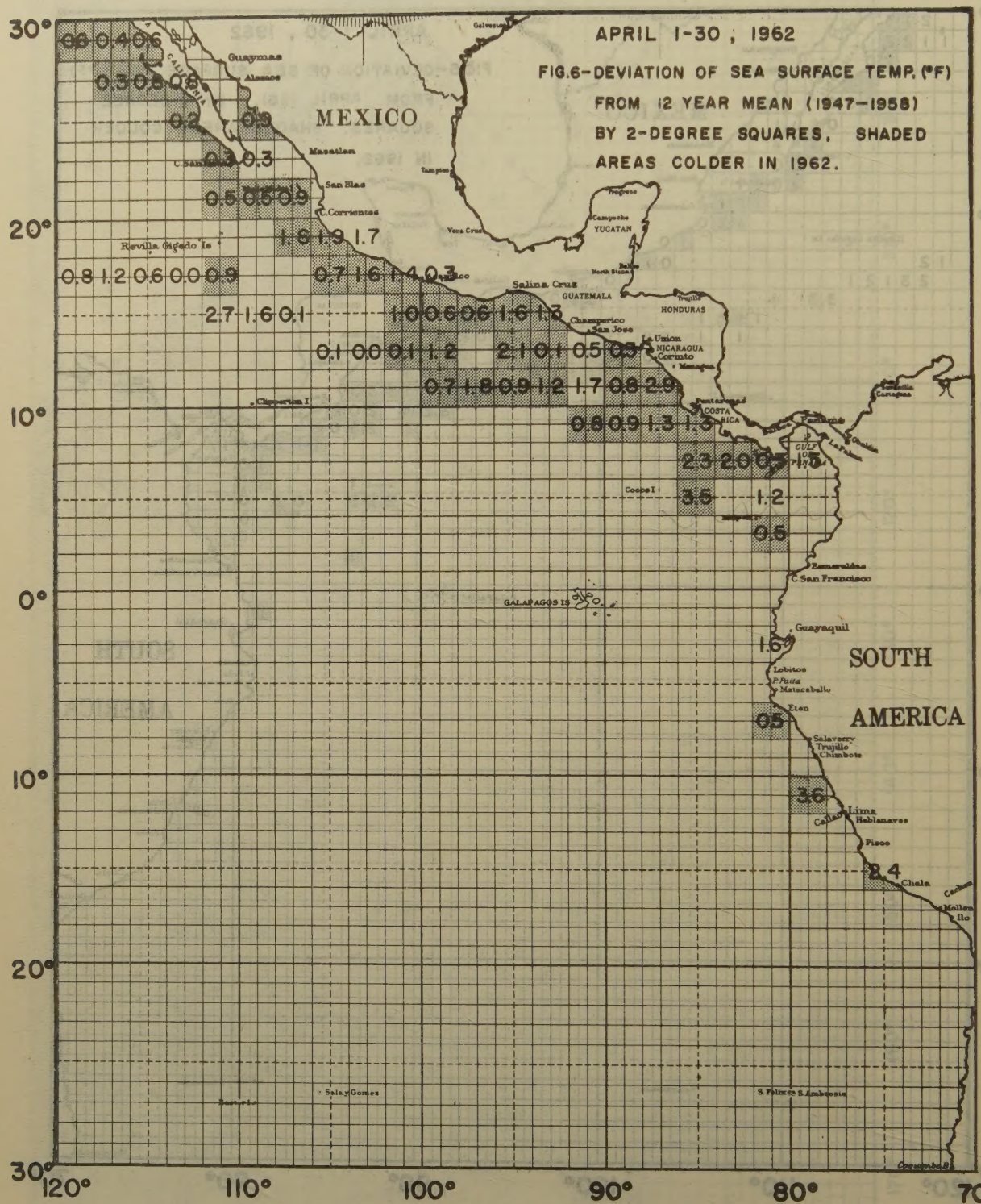

APRIL 1-30, 1962
FIG. 1-MEAN SEA SURFACE TEMPERATURES (°F)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°

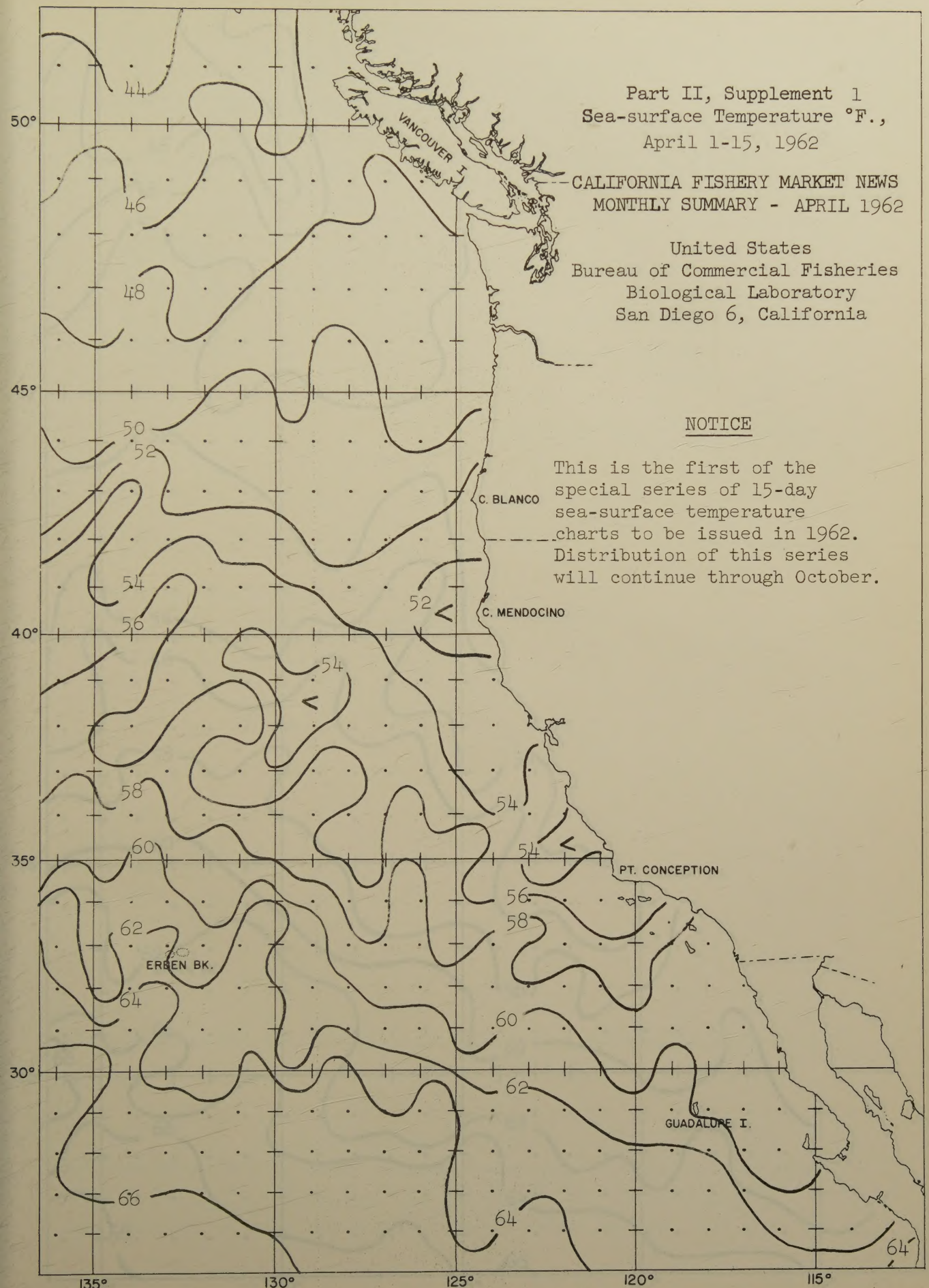

APRIL 1-30, 1962
FIG.2-DEVIATION OF SEA SURFACE TEMP.(°F) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
0
2
4

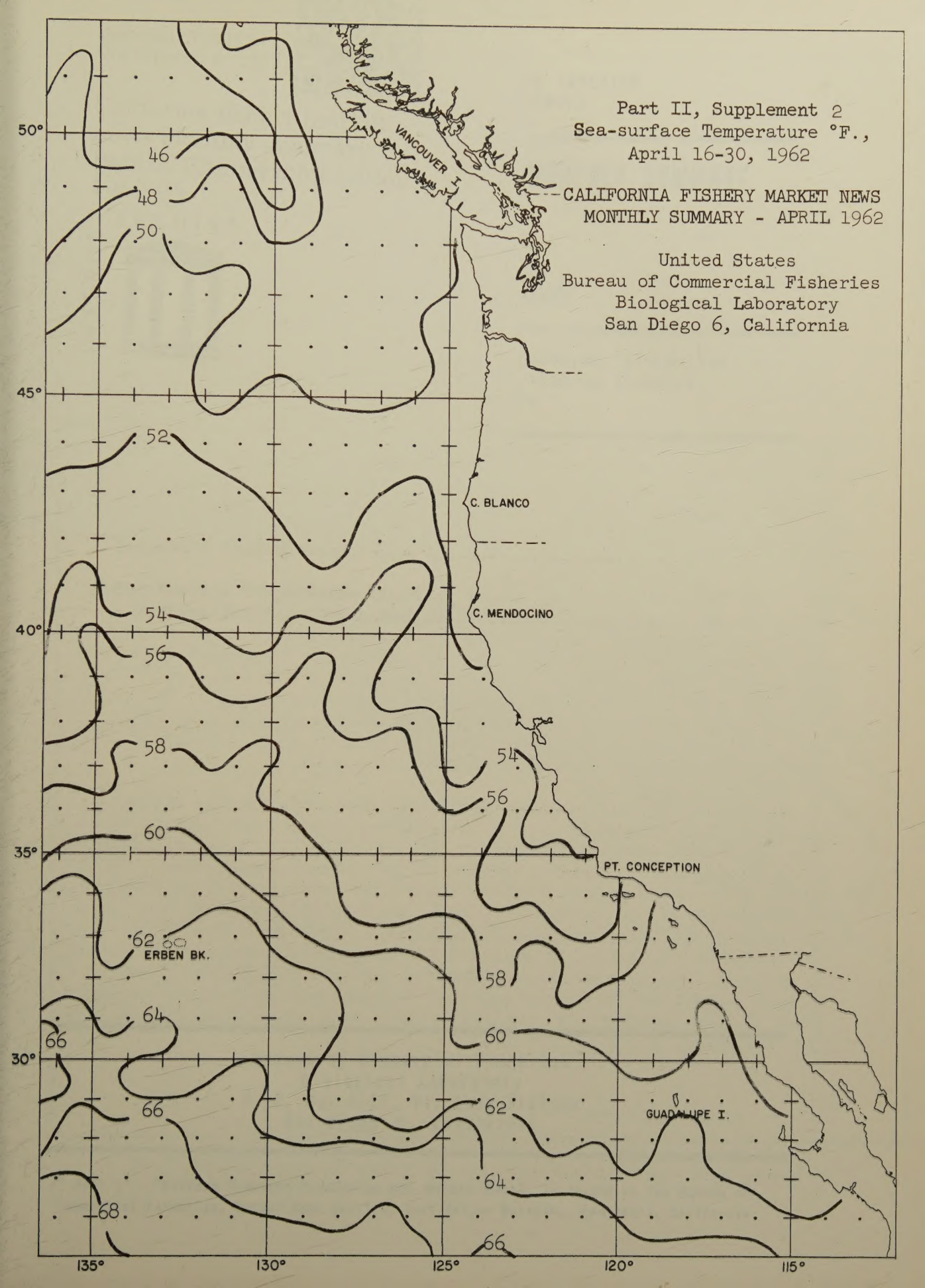

APRIL 1-30, 1962
FIG.3-DEVIATION OF SEA SURFACE TEMP. (°F) FROM APRIL 1961. HATCHED AREAS COLDER IN 1962.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°


APRIL 1-30, 1962
FIG.4-SEA SURFACE TEMPERATURES (°F)
BY 1-DEGREE SQUARES.
MEXICO
SOUTH
AMERICA
MARQUESAS
TUAMOTU ARCHIPELAGO
SAMOA ISLANDS
TONGA ISLANDS
COOK ISLANDS
GALAPAGOS IS.
30°
20°
10°
0°
10°
20°
30°
180°
170°
160°
150°
140°
130°
120°
110°
100°
90°
80°
70°


APRIL 1-30, 1962
FIG.5-DEVIATION OF SEA SURFACE TEMP.(°F) FROM APRIL 1961. BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1962.
MEXICO
SOUTH AMERICA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
PANAMA
YUCATAN
GALAPAGOS IS
Guaymas
Mazatlan
San Blas
C. Corrientes
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Corinto
Guayaquil
Lobitos
Talara
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Callao
Lima
Huacho
Pisco
Chala
Mollendo
Ilo
C. San Francisco
Esmeraldas
Coiba I
Chatham I
Socorro I
Roca Partida
S. Felix
S. Ambrosio
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°


APRIL 1-30, 1962
FIG.6-DEVIATION OF SEA SURFACE TEMP. (°F)
FROM 12 YEAR MEAN (1947-1958)
BY 2-DEGREE SQUARES. SHADED
AREAS COLDER IN 1962.
MEXICO
SOUTH
AMERICA
GUATEMALA
HONDURAS
NICARAGUA
COSTA RICA
GALAPAGOS IS
YUCATAN
Guaymas
Alamos
Mazatlan
San Blas
Salina Cruz
Champerico
San Jose
Corinto
Esmeraldas
C. San Francisco
Guayaquil
Lobitos
Eten
Salaverry
Trujillo
Chimbote
Lima
Pisco
Chala
Mollendo
Callao
Cocos I
Clipperton I
Revilla Gigedo Is
Sala y Gomez
S. Felix
S. Ambrosio
30°
20°
10°
0°
10°
20°
30°
120°
110°
100°
90°
80°
70°


Part II, Supplement 1
Sea-surface Temperature °F.,
April 1-15, 1962
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - APRIL 1962
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
NOTICE
This is the first of the special series of 15-day sea-surface temperature charts to be issued in 1962. Distribution of this series will continue through October.
VANCOUVER I.
C. BLANCO
C. MENDOCINO
PT. CONCEPTION
ERBEN BK.
GUADALUPE I.
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°
44
46
48
50
52
54
56
58
60
62
64
66


Part II, Supplement 2
Sea-surface Temperature °F.,
April 16-30, 1962
CALIFORNIA FISHERY MARKET NEWS
MONTHLY SUMMARY - APRIL 1962
United States
Bureau of Commercial Fisheries
Biological Laboratory
San Diego 6, California
VANCOUVER I.
C. BLANCO
C. MENDOCINO
PT. CONCEPTION
ERBEN BK.
GUADALUPE I.
50°
45°
40°
35°
30°
135°
130°
125°
120°
115°
46
48
50
52
54
56
58
60
62
64
66
68
54
56
58
60
62
64
66